

Amendments to the Claims:

Please amend claim 1 and add new claim 9.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An objective-lens driving apparatus, comprising:

an objective lens for light-converging light on the recording surface of an optical disk,

a lens holder for holding said objective lens,

a focusing coil and tracking coils mounted onto said lens holder,

plural supporting members for supporting a movable unit in a movable manner in a focusing direction and a tracking direction with respect to a fixed unit, said movable unit including said lens holder,

a yoke member including a magnetic substance, and

plural permanent magnets arranged in parallel to said tracking direction and on both ends of said movable unit, wherein,

on one side of said movable unit parallel to said tracking direction, said permanent magnets are arranged on both ends of said movable unit, and

on the other side of said movable unit parallel to said tracking direction, at least one said permanent magnets is arranged at a position ~~closer~~ which is one of close to the center of said movable unit and at the center of said movable unit.

2. (original) An objective-lens driving apparatus, comprising:

an objective lens for light-converging light on the recording surface of an optical disk,

a lens holder for holding said objective lens,  
a focusing coil and tracking coils mounted onto said lens holder,  
plural supporting members for supporting a movable unit in a movable  
manner in a focusing direction and a tracking direction with respect to a fixed unit,  
said movable unit including said lens holder,  
a yoke member including a magnetic substance, and  
plural permanent magnets arranged in parallel to said tracking direction  
and on both ends of said movable unit, wherein,  
on one side of said movable unit parallel to said tracking direction, two  
of said permanent magnets are arranged on both ends of said movable unit, and,  
on the other side of said movable unit parallel to said tracking direction,  
said permanent magnet is arranged at the center of said movable unit.

3. (original) An objective-lens driving apparatus, comprising:

an objective lens for light-converging light on the recording surface of  
an optical disk,  
a lens holder for holding said objective lens,  
a focusing coil and tracking coils mounted onto said lens holder,  
plural supporting members for supporting a movable unit in a movable  
manner in a focusing direction and a tracking direction with respect to a fixed unit,  
said movable unit including said lens holder,  
a yoke member including a magnetic substance, and  
plural permanent magnets arranged in parallel to said tracking direction  
and on both ends of said movable unit, wherein,  
on one side of said movable unit parallel to said tracking direction, said

permanent magnets are arranged such that a magnetic-flux density therefrom becomes larger on both ends of said focusing coil, and

on the other side of said movable unit parallel to said tracking direction, said permanent magnets is located such that a magnetic-flux density therefrom will become larger at a position closer to the center of said focusing coil.

4. (original) An objective-lens driving apparatus, comprising:

an objective lens for light-converging light on the recording surface of an optical disk,

a lens holder for holding said objective lens,

a focusing coil and tracking coils mounted onto said lens holder,

plural supporting members for supporting a movable unit in a movable manner in a focusing direction and a tracking direction with respect to a fixed unit, said movable unit including said lens holder,

a yoke member including a magnetic substance, and

plural permanent magnets arranged in parallel to said tracking direction and on both ends of said movable unit, wherein,

on one side of said movable unit parallel to said tracking direction, said permanent magnets are arranged in a manner of confronting coil-wound portions positioned at the outer sides of said tracking coils, and

on the other side of said movable unit parallel to said tracking direction, said permanent magnets is arranged in a manner of confronting a coil-wound portion positioned at the inner side of said tracking coils.

5. (original) An optical disk apparatus for performing the reproduction of information

from the recording surface of an optical disk by using an objective-lens driving apparatus,

said objective-lens driving apparatus, comprising:

an objective lens for light-converging light on said recording surface of said optical disk,

a lens holder for holding said objective lens,

a focusing coil and tracking coils mounted onto said lens holder,

plural supporting members for supporting a movable unit in a movable manner in a focusing direction and a tracking direction with respect to a fixed unit, said movable unit including said lens holder,

a yoke member including a magnetic substance, and

plural permanent magnets arranged in parallel to said tracking direction and on both sides of said movable unit, wherein

on one side of said movable unit parallel to said tracking direction, said permanent magnets are arranged on both ends of said movable unit, and

on the other side of said movable unit parallel to said tracking direction, said permanent magnets is arranged at a position closer to the center of said movable unit.

6. (original) An optical disk apparatus for performing the reproduction of information from the recording surface of an optical disk by using an objective-lens driving apparatus,

said objective-lens driving apparatus, comprising:

an objective lens for light-converging light on said recording surface of said optical disk,

a lens holder for holding said objective lens,  
a focusing coil and tracking coils mounted onto said lens holder,  
plural supporting members for supporting a movable unit in a movable manner in a focusing direction and a tracking direction with respect to a fixed unit, said movable unit including said lens holder,  
a yoke member including a magnetic substance, and  
plural permanent magnets arranged in parallel to said tracking direction and on both ends of said movable unit, wherein,  
on one side of said movable unit parallel to said tracking direction, two of said permanent magnets are arranged on both ends of said movable unit, and  
on the other side of said movable unit parallel to said tracking direction, said permanent magnet is arranged at the center of said movable unit.

7. (original) An optical disk apparatus for performing the reproduction of information from the recording surface of an optical disk by using an objective-lens driving apparatus,

said objective-lens driving apparatus, comprising:  
an objective lens for light-converging light on said recording surface of said optical disk,  
a lens holder for holding said objective lens,  
a focusing coil and tracking coils mounted onto said lens holder,  
plural supporting members for supporting a movable unit in a movable manner in a focusing direction and a tracking direction with respect to a fixed unit, said movable unit including said lens holder,  
a yoke member including a magnetic substance, and

plural permanent magnets arranged in parallel to said tracking direction and on both ends of said movable unit, wherein,

on one side of said movable unit parallel to said tracking direction, said permanent magnets are arranged such that a magnetic-flux density therefrom becomes larger on both ends of said focusing coil, and

on the other side of said movable unit parallel to said tracking direction, said permanent magnets is arranged such that a magnetic-flux density therefrom becomes larger at a position closer to the center of said focusing coil.

8. (original) An optical disk apparatus for performing the reproduction of information from the recording surface of an optical disk by using an objective-lens driving apparatus,

said objective-lens driving apparatus, comprising:

an objective lens for light-converging light on said recording surface of said optical disk,

a lens holder for holding said objective lens,

a focusing coil and tracking coils mounted onto said lens holder,

plural supporting members for supporting a movable unit in a movable manner in a focusing direction and a tracking direction with respect to a fixed unit, said movable unit including said lens holder,

a yoke member including a magnetic substance, and

plural permanent magnets arranged in parallel to said tracking direction and on both ends of said movable unit, wherein,

on one side of said movable unit parallel to said tracking direction, said permanent magnets are arranged in a manner of confronting coil-wound portions

positioned at the outer sides of said tracking coils, and

on the other side of said movable unit parallel to said tracking direction, said permanent magnets is arranged in a manner of confronting a coil-wound portion positioned at the inner side of said tracking coils.

9. (new) An objective-lens driving apparatus, according to claim 1, wherein said at least one of said permanent magnets is arranged at a position close to the center of said movable unit.